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## RAW SEQUENCE LISTING PATENT APPLICATION US/09/017,524

DATE: 10/18/1999 TIME: 14:09:18

INPUT SET: S33681.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

_		SEQUENCE LISTING
2 3	(1)	General Information
4		General Information ENTERED
5		(i) APPLICANT: Kubo, Ralph T.
6		Grey, Howard M.
7		Sette, Alessandro
8		Celis, Esteban
9		Southwood, Scott
10		
11		(ii) TITLE OF THE INVENTION: HLA Binding Peptides and Their
12		Uses
13		
14		(iii) NUMBER OF SEQUENCES: 103
15		
16		(iv) CORRESPONDENCE ADDRESS:
17		(A) ADDRESSEE: Townsend and Townsend and Crew LLP
18		(B) STREET: Two Embarcadero Center, Eighth Floor
19		(C) CITY: San Francisco
20		(D) STATE: CA
21		(E) COUNTRY: USA
22		(F) ZIP: 94111-3834
23		
24		(v) COMPUTER READABLE FORM:
25		(A) MEDIUM TYPE: Diskette
26		(B) COMPUTER: IBM Compatible
27		(C) OPERATING SYSTEM: DOS
28		(D) SOFTWARE: FastSEQ for Windows Version 2.0
29 30		(vi) CURRENT APPLICATION DATA:
31		(A) APPLICATION NUMBER: 09/017,524
32		(B) FILING DATE: 03-FEB-1998
33		(C) CLASSIFICATION:
34		(C) CLADDII ICATION.
35		(vii) PRIOR APPLICATION DATA:
36		(A) APPLICATION NUMBER: US 08/589,107
37		(B) FILING DATE: 23-JAN-1996
38		
39		(viii) ATTORNEY/AGENT INFORMATION:
40		(A) NAME: Weber, Ellen Lauver
41		(B) REGISTRATION NUMBER: 32,762
42		(C) REFERENCE/DOCKET NUMBER: 018623-005091US
43		
44		(ix) TELECOMMUNICATION INFORMATION:
45		(A) TELEPHONE: 415-576-0200
46		(B) TELEFAX: 415-576-0300

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47	(C) TELEX:
48	(0)
49	
50	(2) INFORMATION FOR SEQ ID NO:1:
51	(2) INFORMATION FOR BEG ID NO.1.
52	/;\ CECHENCE CUNDACTEDICTICS.
	(i) SEQUENCE CHARACTERISTICS:
53	(A) LENGTH: 9 amino acids
54	(B) TYPE: amino acid
55	(C) STRANDEDNESS: single
56	(D) TOPOLOGY: linear
57	
58	(ii) MOLECULE TYPE: peptide
59	
60	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
61	
62	Phe Leu Trp Thr Gln Ser Leu Arg Arg
63	1 5
64	
65	(2) INFORMATION FOR SEQ ID NO:2:
66	(a, a
67	(i) SEQUENCE CHARACTERISTICS:
68	(A) LENGTH: 9 amino acids
69	(B) TYPE: amino acid
70	(C) STRANDEDNESS: single
71	(D) TOPOLOGY: linear
72	
73	<pre>(ii) MOLECULE TYPE: peptide</pre>
7 <b>4</b>	
75	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
76	
77	Gly Ile Pro Tyr Cys Asn Tyr Ser Lys
78	1 5
79	
80	(2) INFORMATION FOR SEQ ID NO:3:
81	
82	(i) SEQUENCE CHARACTERISTICS:
83	(A) LENGTH: 9 amino acids
84	(B) TYPE: amino acid
85	(C) STRANDEDNESS: single
86	(D) TOPOLOGY: linear
87	(b) forobodi. Tinear
-	(ii) MOLECULE TYPE: peptide
88	(II) MODECOLE IIPE: pepcide
89	/ '\
90	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
91	
92	Gly Val Val Arg Val Trp Asp Val Lys
93	1 5
94	
95	(2) INFORMATION FOR SEQ ID NO:4:
96	
97	(i) SEQUENCE CHARACTERISTICS:
98	(A) LENGTH: 9 amino acids
99	(B) TYPE: amino acid

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100
               (C) STRANDEDNESS: single
101
               (D) TOPOLOGY: linear
102
            (ii) MOLECULE TYPE: peptide
103
104
105
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
106
107
       Met Leu Arg Leu Phe Asp Phe Asn Lys
108
109
                (2) INFORMATION FOR SEQ ID NO:5:
110
111
             (i) SEQUENCE CHARACTERISTICS:
112
113
               (A) LENGTH: 9 amino acids
114
               (B) TYPE: amino acid
115
               (C) STRANDEDNESS: single
               (D) TOPOLOGY: linear
116
117
             (ii) MOLECULE TYPE: peptide
118
119
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
120
121
      Arg Thr Arg Asp Ile Tyr Ile Ser Arg
122
123
124
125
                (2) INFORMATION FOR SEQ ID NO:6:
126
             (i) SEQUENCE CHARACTERISTICS:
127
               (A) LENGTH: 9 amino acids
128
               (B) TYPE: amino acid
129
130
               (C) STRANDEDNESS: single
               (D) TOPOLOGY: linear
131
132
            (ii) MOLECULE TYPE: peptide
133
134
135
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
136
      Ser Ala Val Ile Asp Ala Leu Pro Arg
137
138
                        5
139
                (2) INFORMATION FOR SEQ ID NO:7:
140
141
142
             (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 9 amino acids
143
               (B) TYPE: amino acid
144
               (C) STRANDEDNESS: single
145
146
               (D) TOPOLOGY: linear
147
            (ii) MOLECULE TYPE: peptide
148
149
150
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
151
152
      Ser Val Leu Arg Ala Val Leu Pro Arg
```

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153	1	5
154		
155		(2) INFORMATION FOR SEQ ID NO:8:
156		
157	(i)	SEQUENCE CHARACTERISTICS:
158	(	A) LENGTH: 9 amino acids
159		B) TYPE: amino acid
160		C) STRANDEDNESS: single
161		D) TOPOLOGY: linear
162	'	b) 1010B001. 11Real
163	(;;	) MOI ECHIE TYDE, postido
	(11	) MOLECULE TYPE: peptide
164	, .	\
165	(XI	) SEQUENCE DESCRIPTION: SEQ ID NO:8:
166		
167	Val Thr P	he Leu Leu Cys Gly Arg
168	1	5
169		
170		(2) INFORMATION FOR SEQ ID NO:9:
171		
172	(i)	SEQUENCE CHARACTERISTICS:
173		A) LENGTH: 10 amino acids
174		B) TYPE: amino acid
175		C) STRANDEDNESS: single
176		D) TOPOLOGY: linear
177	,	by 10102001. IIIIGu
178	(11	) MOLECULE TYPE: peptide
179	(11	, Monneous IIFE. pepcide
	(	A GEORGIA DEGOLIDATON. GEO. ID. NO. O.
180	(XI	) SEQUENCE DESCRIPTION: SEQ ID NO:9:
181	11- N-5-0	
182		er Cys Asp Phe Asn Gly Gly Lys
183	1	5 10
184		
185		(2) INFORMATION FOR SEQ ID NO:10:
186		
187		SEQUENCE CHARACTERISTICS:
188		A) LENGTH: 10 amino acids
189	()	B) TYPE: amino acid
190	(	C) STRANDEDNESS: single
191	(:	D) TOPOLOGY: linear
192		
193	(ii	) MOLECULE TYPE: peptide
194	,	F-F
195	(xi	) SEQUENCE DESCRIPTION: SEQ ID NO:10:
196	(211	blyomica blbckii i on. bly ib ho.io.
197	Cly Cor T	yr Ile Ala Leu Asp Ser Gly Arg
198	1	· · · · · · · · · · · · · · · · · · ·
199	1	5 10
		(0) THEODMATON FOR GEO TO NO 11
200		(2) INFORMATION FOR SEQ ID NO:11:
201	, , ,	
202		SEQUENCE CHARACTERISTICS:
203		A) LENGTH: 10 amino acids
204	,	B) TYPE: amino acid
205	- 11	T) STRANDEDNESS, single

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206	(D) TOPOLOGY: linear
207	
208	(ii) MOLECULE TYPE: peptide
209	
210	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
211	
	Lys Ser Phe Leu Trp Thr Gln Ser Leu Arg
	1 5 10
213	5 10
214	(0)
215	(2) INFORMATION FOR SEQ ID NO:12:
216	
217	(i) SEQUENCE CHARACTERISTICS:
218	(A) LENGTH: 10 amino acids
219	(B) TYPE: amino acid
220	(C) STRANDEDNESS: single
221	(D) TOPOLOGY: linear
222	(2) 10101011 111041
223	(ii) MOLECULE TYPE: peptide
223 224	(II) MODECODE IIIE: pepcide
	() GROUPINGE DEGGDIDETON, GEO ID NO. 10
225	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
226	
	Leu Thr Tyr Ser Gln Leu Met Thr Leu Lys
228	1 5 10
229	
230	(2) INFORMATION FOR SEQ ID NO:13:
231	
232	(i) SEQUENCE CHARACTERISTICS:
233	(A) LENGTH: 10 amino acids
234	(B) TYPE: amino acid
235	(C) STRANDEDNESS: single
236	(D) TOPOLOGY: linear
237	(b) Torollogi. Timear
	(ii) MOLEGIER BURN
238	(ii) MOLECULE TYPE: peptide
239	/ ()
240	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
241	
242 7	Arg Thr Arg Asp Ile Tyr Ile Ser Arg Arg
243	1 5 10
244	
245	(2) INFORMATION FOR SEQ ID NO:14:
246	
247	(i) SEQUENCE CHARACTERISTICS:
248	(A) LENGTH: 9 amino acids
249	(B) TYPE: amino acid
250	(C) STRANDEDNESS: single
251	(D) TOPOLOGY: linear
252	(D) TOTOLOGI. TIMEAT
252 253	(ii) MOIECILE TYPE, postido
	(ii) MOLECULE TYPE: peptide
254	() aportmyan phaantomics, and the second
255	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
256	
	Tyr Arg His Leu Leu Cys Leu Glu Arg
258	1 5

# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/017,524

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Original Text